

Cover Crops in Reduced Till Organic Systems



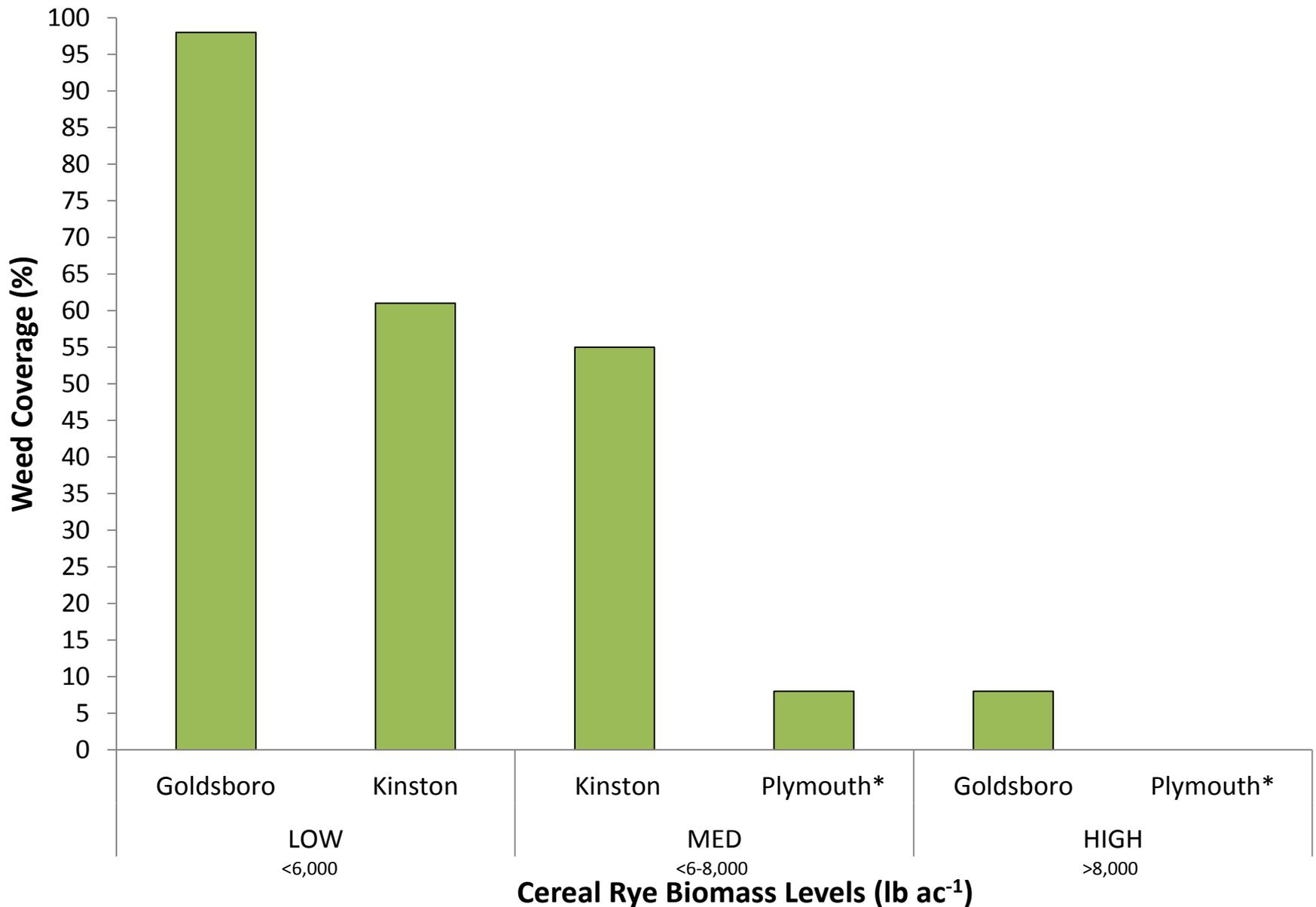
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Atwell







Weed coverage in soybean as affected by cereal rye biomass







High- residue cultivation: Post-emergence







Corn has problems

- What should the cover crop be?
 - Grass
 - Legume
 - Mix

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- What should the cover crop be?
 - Grass- nitrogen problem
 - Legume
 - Mix

Corn has problems

- What should the cover crop be?
 - Grass- nitrogen problem
 - Legume – biomass problem
 - Mix

Corn has problems

- What should the cover crop be?
 - Grass- nitrogen problem
 - Legume – biomass problem
 - Mix – hard to plant into unless clover/grass mix





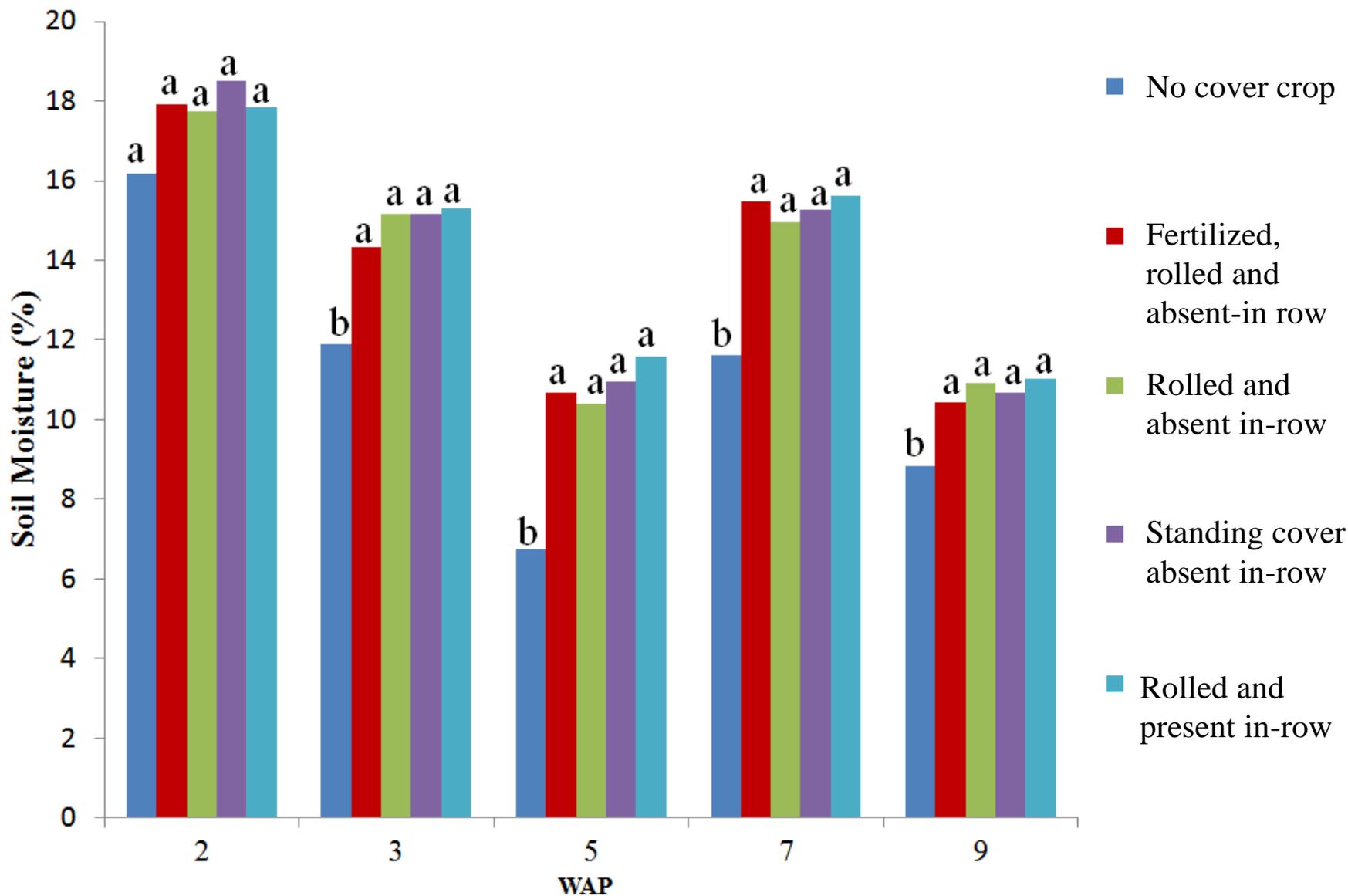


New Directions





Soil moisture as affected by cover crop treatment averaged over herbicide treatment averaged over 5 environments



NC Coastal Plain Environments

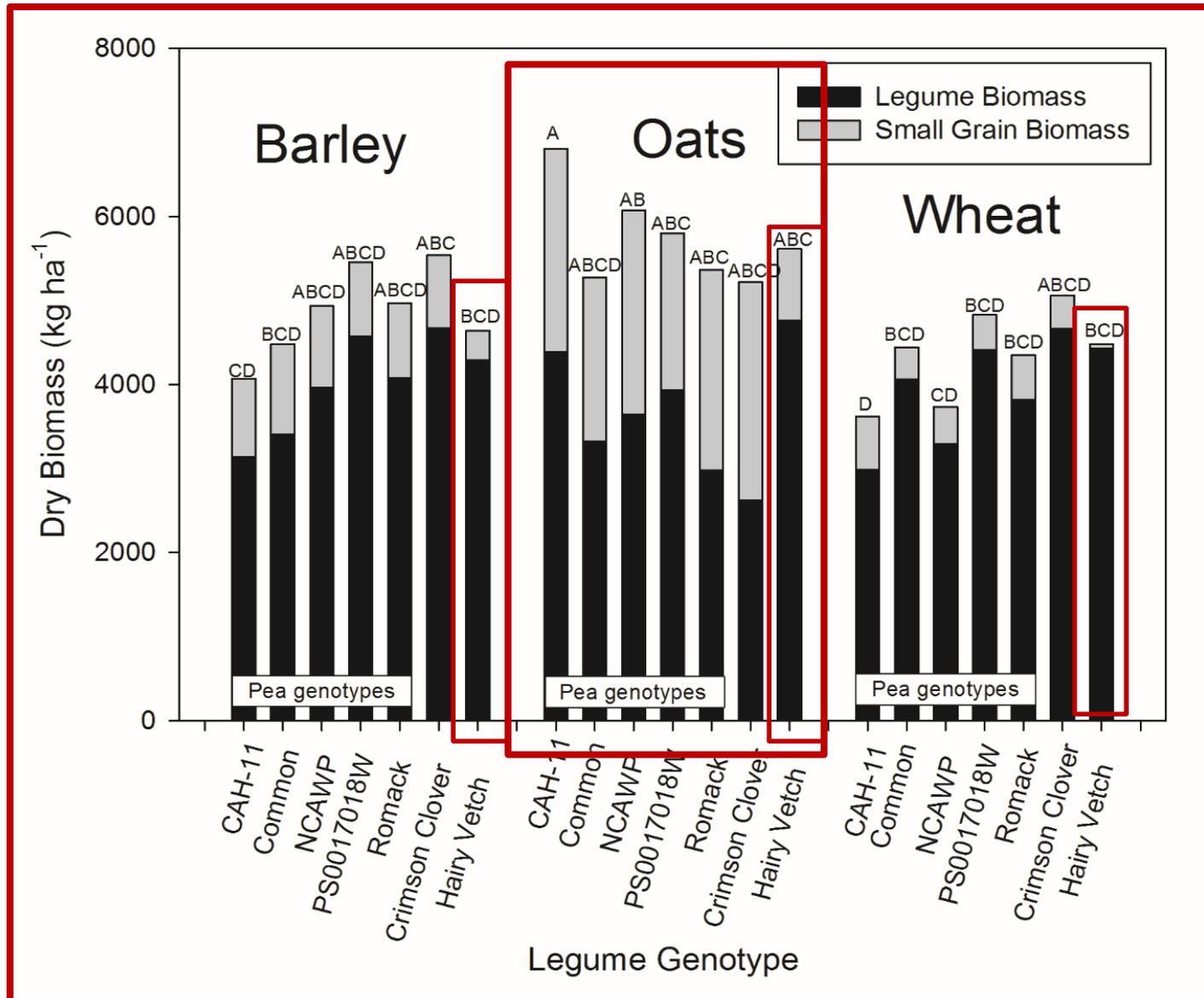


Figure 1. Total biomass as affected by legume genotype and small grain in a combined analysis of the Coastal Plain environments (Clayton 2016, Clayton 2017, Kinston 2016, Rocky Mount 2017).



MaxEmerge 2

